

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A lamp device for a vehicle comprising:

a light source;

a reflector in which a reflection surface is a free curved surface;

a lens having no prism; and

wherein light reflected by said reflector from said light source is transmitted through said lens so as to irradiate an external section in accordance with a target light distribution pattern, and

wherein said lens is formed in a convex shape in a vertical cross section and a horizontal cross section.

2. (Original) The lamp device for a vehicle according to claim 1, wherein the reflection surface of said reflector is structured such that the vertical cross section and the horizontal cross section are formed in a substantially hyperboloidal surface smaller than said lens.

3. (Original) The lamp device for a vehicle according to claim 1, wherein a free curved surface formed on the reflection surface of said reflector is a non-uniform rational B-spline surface (NURBS).

4. (Original) The lamp device for a vehicle according to claim 2, wherein a free curved surface formed on the reflection surface of said reflector is a non-uniform rational B-spline surface (NURBS).

5. (Original) The lamp device for a vehicle according to claim 1, wherein a torus curved surface or a free curved surface is formed on a front surface or/and a back surface of said lens.

6. (Original) The lamp device for a vehicle according to claim 2, wherein a torus curved surface or a free curved surface is formed on a front surface or/and a back surface of said lens.

7. (Original) The lamp device for a vehicle according to claim 3, wherein a torus curved surface or a free curved surface is formed on a front surface or/and a back surface of said lens.

8. (Original) The lamp device for a vehicle according to claim 4, wherein a torus curved surface or a free curved surface is formed on a front surface or/and a back surface of said lens.

9. (Previously Presented) The lamp device for a vehicle according to claim 1, wherein the light source emits light, the reflector reflects the light, the reflection surface comprises a plurality of reflection surfaces, each including a free curved surface for providing a light distribution pattern, the lens transmits the reflected light such that the reflected light from the reflector transmits through the lens so as to irradiate the external section in accordance with a target light distribution pattern, and the target light distribution pattern is formed by combining the light distribution patterns of the reflection surfaces.